

## MR4 Receiver Parts List-1

Rev A

## CAPACITORS

C 1	Part of Helical Resonator
C 2	Part of Helical Resonator
C 3	Part of Helical Resonator
C 4	5-25 pf Trim Cap
C 5	.001 Disc
C 6	.001 Disc
C 7	.001 Disc
C 8	.001 Disc
C 9	Part of Helical Resonator
C 10	Part of Helical Resonator
C 11	Part of Helical Resonator
C 12	Part of Helical Resonator
C 13	Part of Helical Resonator
C 14	Part of Helical Resonator
C 15	5-25 pf Trim Cap
C 16	.001 Disc
C 17	.001 Disc
C 18	.001 Disc
C 19	.001 Disc
C 20	Part of Helical Resonator
C 21	.001 Disc
C 22	5-25 pf Trim Cap
C 23	.001 Disc
C 24	5-25 pf Trim Cap
C 25	.001 Disc
C 26	5-25 pf Trim Cap
C 27	.001 Disc
C 28	5-25 pf Trim Cap
C 29	.001 Disc
C 30	100 pf Silver Mica
C 31	4.7Mfd 16v.
C 32	.01 Disc
C 33	F.S. 8 pf SM (135-174 Mhz) 8 pf SM (420-512 Mhz) 12 pf SM (216-250 MHz)
C 34	F.S. 56 pf NPO (135-151 MHz) 47 pf NPO (151-158 MHz) 36 pf NPO (158-174 MHz) 39 pf NPO (215-250 MHz) 20 pf NPO (420-512 MHz)
C 35	.001 Disc
C 36	.001 Disc
C 37	F.S. 1 pf tubular
C 38	F.S. 10 pf NPO (135-151 MHz) 12 pf NPO (151-158 MHz)

## RESISTORS

R 1	1K
R 2	1.8K
R 3	220 Ohm with F.Bead
R 4	100 Ohm
R 5	1K
R 6	1.8K
R 7	220 ohm with F.Bead
R 8	100 Ohm
R 9	10K *
R 10	10K *
R 11	10K *
R 12	10K *
R 13	15K
R 14	3.3K
R 15	220 Ohm
R 16	39 Ohm with F.Bead
R 17	1.5K
R 18	6.8K
R 19	1.8K
R 20	220 Ohm
R 21	47 Ohm with F.Bead
R 22	6.8K
R 23	1.8K
R 24	220 Ohm
R 25	47 Ohm with F Bead
R 26	6.8K
R 27	1.8K
R 28	220 Ohm
R 29	47 Ohm with F. Bead
R 30	1K
R 31	2.7K
R 32	1K
R 33	47 Ohm with F. Bead
R 34	75 Ohm
R 35	2K
R 36	2K
R 37	47 Ohm With F. Bead
R 38	1K
R 39	2.7K
R 40	1 K
R 41	75 Ohm
R 42	2.2K
R 43	100K
R 44	4.7K
R 45	1K
R 46	47K
R 47	4.7K
R 48	390K



MR4 Receiver Parts List-2  
Rev A3

CAPACITORS

10 pf NPO (158-250 MHz)  
15 pf NPO (420-512 MHz)  
C 39 F.S.  
10pf NPO (135-151 MHz)  
10 pf NPO (151-158 MHz)  
8 pf NPO (158-174 MHz)  
12 pf NPO (215-512 MHz)  
C 40 1 pf (5 pf 220 Mhz only)  
C 41 .001 Disc  
C 42 .01 Disc  
C 43 F.S. 1 pf tubular  
C 44 F.S.  
22 pf (135-151Mhz)  
(151-158Mhz)  
(158-174Mhz)  
(215-250Mhz)  
(420-512Mhz)

C 45 6.8 NPO Disc  
C 46 F.S. 1 pf  
C 47 .001 Disc  
C 48 .01 Disc \*\*  
C 49 3-15 pf Trim Cap \*\*  
C 50 1 pf tubular  
C 51 3-15 pf Trim Cap \*\*  
C 52 3-15 pf Trim Cap \*\*  
C 53 3-15 pf Trim Cap \*\*  
C 54 1 pf tubular \*\*  
C 55 33 pf NPO  
C 56 10 pf NPO  
C 57 27 pf NPO  
C 58 .01 Disc  
C 59 .01 Disc  
C 60 33 pf NPO  
C 61 .01 Disc  
C 62 10 pf NPO  
C 63 .01 Disc  
C 64 .01 Disc  
C 65 .001 Disc  
C 66 33 pf NPO  
C 67 .01 Disc  
C 68 100 pf S.M.  
C 69 17 pf S.M.  
C 70 .01 Disc  
C 71 100 pf NPO  
C 72 .1 Disc  
C 73 .1 Disc  
C 74 100 pf S.M.  
C 75 100 pf NPO

RESISTORS

R 49 10K  
R 50 20K  
R 51 7.5K  
R 52 4.7K  
R 53 390 Ohm  
R 54 10K Pot  
R 55 20K  
R 56 47K  
R 57 20K  
R 58 1K  
R 59 200K  
R 60 39 K F.S.  
  
R 61 470K  
R 62 1 Meg  
R 63 470K  
R 64 10K Pot  
R 65 1 Meg  
R 66 5k Pot  
R 67 22 Meg  
R 68 150 Ohm with F. Bead  
R 69 22 Meg  
R 70 3.9K  
R 71 2.2K  
R 72 470K  
R 73 10K  
R 74 1 Meg  
R 75 10K  
R 76 20K  
R 77 4.7K  
R 78 100K  
R 79 10K  
R 80 10K  
R 81 10K  
R 82 150 Ohm  
R 83 3.9K  
R 84 50K pot (Squelch)

SEMI-CONDUCTOR DEVICES

Q 1 MRF 901



C 76 100 pf NPO  
C 77 4.7 Mfd 16 v.  
C 78 4.7 MFD 16v.  
C 79 .047 Mylar  
C 80 .01 Mylar  
C 81 2.2 MFD  
C 82 2.2 MFD 16v.  
C 83 4.7 MFD 16v.  
C 84 220 MFD 35v.  
C 85 .1  
C 86 33 MFD 35v.  
C 87 .1 MFD Disc  
  
C 88 220 MFD 35v.  
C 89 .1 MFD Disc  
C 90 .1 MFD Disc  
C 91 .1 MFD Disc.  
C 92 100 pf NPO  
C 93 100 pf NPO  
C 94 4.7 MFD 16v.  
C 95 100 pf NPO  
C 96 100 pf NPO  
C 97 2.2 MFD 16v.  
C 98 .1 MFD Disc  
C 99 .1 MFD Disc  
  
C 100 .1 MFD Disc  
C 101 .1 MFD Disc  
C 102 2.2 MFD 16v.  
C 103 33 MFD 35v.  
C 104 .1 MFD Disc  
C 105 .01 Mylar  
C 106  
C 107 5-25 pf Trim Cap

#### CRYSTALS and FILTERS

Y1-Y4

136-151  $F_x = (F_0 - 21.4 \text{ Mhz}) / 2$   
151-174  $F_x = (F_0 - 21.4 \text{ Mhz}) / 3$   
216-250  $F_x = (F_0 - 21.4 \text{ Mhz}) / 4$   
420-512  $F_x =$   
Parallel resonant, third  
overtone, resistance 30  
Ohm max 12 pf load cap-  
acity, HC-25/U case

Q 2 MRF 901  
Q 3 2N4123  
Q 4 2N3563  
Q 5 2N3563  
Q 6 2N5179  
Q 7 2N3563  
Q 8 2N3563  
Q 9 2N4123  
Q 10 2N4123  
Q 11 2N4123  
Q 12 2N4123  
Q 13 2N4123

Q 14 2N4123  
Q 15 2N4123  
Q 16 2N4123

U 1 MC 3359  
U 2 CD4007  
U 3 LM3900  
U 4 LM380  
U 5 7808  
CR 1 1N1448 \*  
CR 2 1N1448 \*  
CR 3 1N1448 \*

CR 4 1N1448 \*  
CR 5-14 1N1448

#### COILS and INDUCTORS

L1 Part of Hel. Resonator  
L2 Part of Hel. Resonator  
L3 Part of Hel. Resonator  
L4 6T2518 (135-174 Mhz)  
L5 Part of Hel. Resonator  
L6 Part of Hel. Resonator  
L7 Part of Hel. Resonator  
L8 Part of Hel. Resonator  
L9 Part of Hel. Resonator  
L10 6T2528 (135-174 Mhz)  
5T2518 (216-250 Mhz)  
L11 5T2518  
L12 Part of Hel. Resonator  
L13 Part Hel. Resonator

